

PROFESSIONAL SOUND SYSTEMS >>>

Kinetic Active Series

OPERATING MANUAL AND USER GUIDE

Kinetic 12A
Kinetic 215A

Kinetic 12MA
Kinetic 18BA

Kinetic 15A



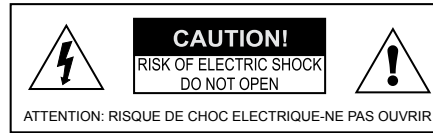
www.wharfedalepro.com

IMPORTANT WARNINGS & SAFETY INSTRUCTIONS

1. Read these instructions
2. Follow all instructions
3. Keep these instructions
4. Heed all warnings
5. Do not use this apparatus near water
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarised or grounding plug. A polarised plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart and apparatus combination to avoid injury from tip-over.



13. Unplug the apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way including but not limited to power supply cord or plug damage, liquid ingress, foreign objects in the chassis, exposure to rain/moisture or impact damage. In addition the unit must be serviced when you experience any abnormal operation.
15. CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not attempt to perform any servicing other than that contained in the operating instructions unless you are qualified to do so. In addition opening the casing will result in your warranty becoming null and void.
16. Do not install this apparatus in a confined space such as a book case or similar unit. Good ventilation should be maintained around the apparatus and any vents, air-inlets or fans should not be obstructed by objects such as paper, table-cloths, curtains etc.
17. WARNING: To reduce the risk of fire or electric shock, do not expose the apparatus to rain or moisture. The apparatus should not be exposed to dripping or splashing and objects filled with liquids, such as vases, should not be placed on the apparatus.
18. WARNING: The mains plug/appliance coupler is used as a disconnect device, the disconnect device shall remain readily operable.





19. - This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
 - Warning: To reduce the risk of electric shock, do not remove the cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.
 - The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.
20.  (Protective earthing terminal) The apparatus should be connected to a mains socket outlet with a protective earthing connection.
21.  Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use local return and collection systems or contact the retailer where the product was purchased. They can take this product for safe environmentally friendly recycling.

TABLE OF CONTENTS

IMPORTANT WARNINGS & SAFETY INSTRUCTIONS	1
ABOUT THE Kinetic Active SERIES	3
INTRODUCTION	3
Kinetic Active SERIES OVERVIEW	3
KEY FEATURES	4
SETTING UP	5
SPEAKER PLACEMENT	5
CONNECTIONS AND WIRING	5
CONNECTING A PASSIVE MONITOR TO THE Kinetic 12MA	5
Kinetic 12MA PANEL & DESCRIPTION	6
Kinetic 12A/15A/12MA/215A	7
Kinetic 12A/15A-REAR PANEL LAYOUT	7
Kinetic 215A-REAR PANEL LAYOUT	8
Kinetic 12A/15A/215A REAR PANEL FEATURES	9
Kinetic 18BA REAR PANEL FEATURES	10
Kinetic 12A/15A/215A BASIC SYSTEM	11
STEREO SYSTEM WITH Kinetic MID/HIGH SYSTEM WITH Kinetic 18BA	12
Kinetic 12MA WITH CONNECTIONS	13
REFERENCE	14
SPECIFICATIONS	16
DIMENSIONAL DRAWINGS	18
BLOCK DIAGRAM	21

ABOUT THE Kinetic Active SERIES

Wharfedale Kinetic Active series sound reinforcement speakers are designed for demanding sound reinforcement applications.

The Kinetic Active series loudspeakers are high quality, active speaker systems designed to provide the best sound in a powerful, feature laden, easy to use package. They provide transparent and accurate sound reproduction or reinforcement. The 30.5mm exit phenolic high frequency compression driver projects crystal clear high frequencies. A proprietary 90°x60°Elliptical Wave Guide(EWG) delivers the high frequencies in a well defined, even coverage pattern. Dynamic passages, such as the crack of a snare drum or the report of a cannon, come through just like the real thing.

The Kinetic Active Series is very flexible in application. With its heavy duty components, handles and stand mount socket and durable carpet finish, the Kinetic Active can rise to any sound reinforcement challenge.

INTRODUCTION

Wharfedale Kinetic Active Series loudspeakers are the result of many years of experience in the use, design and manufacturing of professional loudspeaker products. We take great pride in engineering and building every Wharfedale Pro loudspeaker and wish to thank you for entrusting us with your sound.

From the time Gilbert Briggs built his first loudspeaker in 1932, to the present, Wharfedale Loudspeakers have maintained the same standard of quality in components, workmanship and performance. Actually, Wharfedale is one of a few present day manufacturers that design, engineer and build all of their own transducers.

Please take a few minutes to read this manual completely in order to ensure that you get the most out of your Kinetic Active Series Loudspeaker.

Kinetic Active SERIES OVERVIEW

The Kinetic Active Series are powerful, accurate, high quality loudspeaker systems with low distortion that were designed to deliver high quality sound for the best value. From the Kinetic 12MA to the Kinetic 15A plus the Kinetic 18BA high powered sub, you have what it takes to assemble the system that your music deserves.

An important factor in loudspeakers is the smoothness of the sound coverage. Many speakers that may sound acceptable in the horizontal plane have problems in the vertical plane. The Kinetic Active speakers exhibit very smooth and well-behaved sound dispersion characteristics in both the horizontal and vertical planes making positioning and set-up less critical. Everyone in the room will hear the same quality sound.

KEY FEATURES

- ◆ 2-way bi-amplified(Kinetic 12A/15A/215A)
- ◆ Class D LF and HF power amplifiers(Kinetic 12A/15A)
- ◆ Class D LF and Class AB HF power amplifiers(Kinetic 215A)
- ◆ LF and HF signal limiting
- ◆ 1.2 inch (30.5mm) phenolic diaphragm compression driver
- ◆ 90°x60° High Frequency Elliptical Wave Guide (EWG)
- ◆ High power 2.5" voice coil subwoofer
- ◆ Thermal, DC and short circuit fault protection
- ◆ Bass/Treble EQ controls
- ◆ 7 Band Graphic Equalizer(Kinetic 12MA)
- ◆ External speaker output connector(Kinetic 12MA)
- ◆ Built in 2 channel TRS jack and male XLR balanced line level or MIC level inputs
- ◆ Female XLR balanced line level output
- ◆ Rear panel LED
- ◆ Volume control
- ◆ Tear drop shaped handles
- ◆ Integrated stand adapter (Kinetic 12A/15A/18BA)
- ◆ Covered in rugged black carpet

SETTING UP

1. Be sure that the POWER switches on the Kinetic Active speakers are in the OFF position
2. Set the level controls to minimum(Fully anticlockwise).
3. Set the EQ HF and LF controls to 0dB position.
4. Set MIC/LINE switch to the LINE position(disengaged).
5. Connect all signal cables.
6. Plug the power cable into a properly grounded 3-wire AC power.
7. Switch on source equipment, ensuring that the master level is at minimum.
8. Switch on the Kinetic Active Loudspeaker.
9. Raise the level control on the Kinetic Active .
10. If the limit LED illuminates lower the level control, if more level is required you will need more speakers. Occasional flashes are acceptable.
11. When powering down your system ensure that the level control has been lowered to minimum before switching off the power.

SPEAKER PLACEMENT

The uniform dispersion of the Kinetic Active Series makes it easy to position the speakers where you need them, rather than trying to rearrange the room to accommodate the sound system. And the trapezoidal shaped cabinet with heavy duty handles makes transporting the speakers that much easier. An integral Aluminium stand socket(Kinetic 18BA) allows you to place the speakers high above the audience for best sound coverage..

When you don't think you are getting all the bass you need, the Kinetic Active Series has a great sub: the Kinetic 18BA. This is a powerful bass reflex subwoofer that gives you the lowest frequencies and the punch you need. The Kinetic 18BA is a straight forward, no nonsense 18-inch bass reflex subwoofer with exceptional low frequency response.

CONNECTIONS AND WIRING

Connecting the Kinetic Active Series to your system is easy. The input panel includes parallel TRS 6.35mm(1/4") and XLR connectors. Run your signal wires from your mixer or other line level components, to the speaker; you can use either input connector. Be sure to run the audio cables separately from the power cables.

In addition to microphones, your Kinetic Active system will accommodate many sources. Some of these sources may require special adapters or adapter cables. See the "Connectors" section for more information.

CONNECTING A PASSIVE MONITOR TO THE Kinetic 12MA

When additional coverage or power is needed an extra passive monitor(For example the Kinetic 12M) can be powered in parallel from the internal amplifier of the Kinetic 12MA.

A standard speaker cable is used to connect the Kinetic 12MA output to the input of the additional monitor.

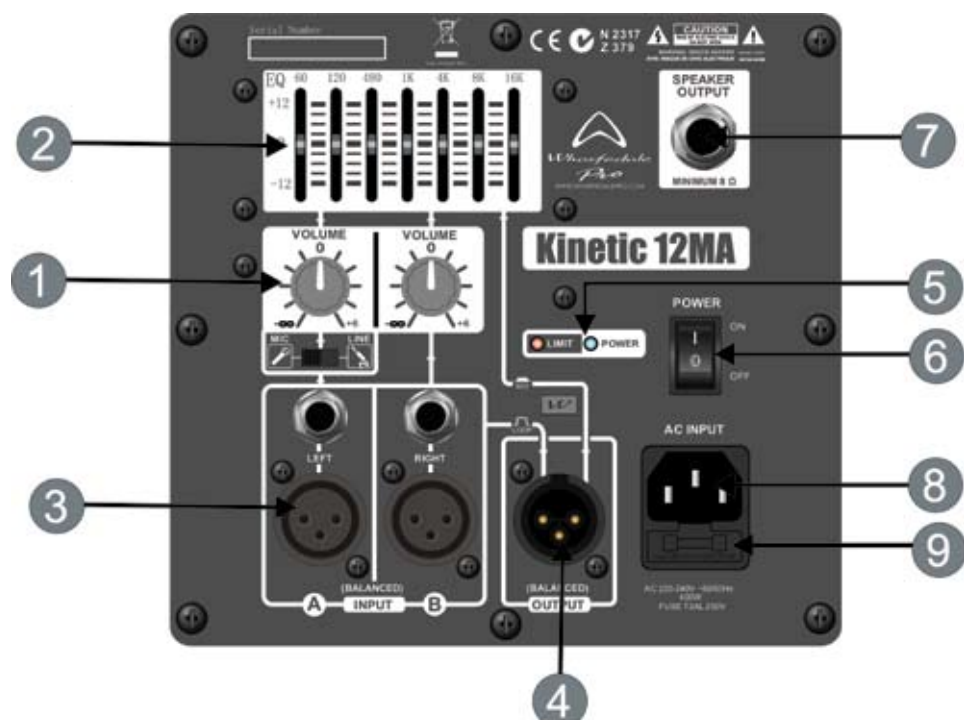
Kinetic 12MA PANEL & DESCRIPTION:

1. **VOLUME for INPUT A and INPUT B:** These knobs control the level of each input channel
2. **7 band EQ:** Use this Seven-Band Graphic EQ to cut or boost your signal up to 12dB at designed frequency centers. This is useful for reducing low frequency rumble or feedback that often occurs on stage.
3. **TRS Jack and male XLR balanced for INPUT A and INPUT B:** These convenient jacks allow XLR or "1/4" balanced input connections to INPUT A and INPUT B
4. **Female XLR balanced line level OUTPUT:** This jack provides a balanced line level output for connection to The Kinetic 12MA and to allow for daisy chaining the signal to possibly another Kinetic 12MA.
- 5& 6. **POWER ON/OFF switch, POWER 'ON' indicator LED and LIMIT indicator LED:** The switch: turns the power on and off. The bracketed LED to the left of the POWER switch illuminates when the power switch is in the 'ON' position. The LIMIT LED illuminates when the signal limiter is limiting the level of the signal to prevent distortion and overload.
7. **Speaker out:** The Speaker Out is post EQ, powered output. Designed for a minimum impedance of 8ohms speaker. This output should be connected only to non-powered monitor speaker. The Kinetic-12M is the perfect extension monitor to use in this application.
8. **POWER cord receptacle:** This is a receptacle for a standard IEC, three prong, grounded AC electrical connection cord. Be sure that you are plugging into the correct source voltage that matches what is indicated just below the power cord jack.

NEVER REMOVE OR CUT THE GROUND PIN OF THE LINE CORD PLUG

Damage to the equipment may occur if an improper line voltage is used.

9. **Fuse:** If the fuse should fail, it must be replaced with the same type and value in order to avoid damage to the equipment and prevent voiding the warranty.



Kinetic 12A/15A/12MA/215A

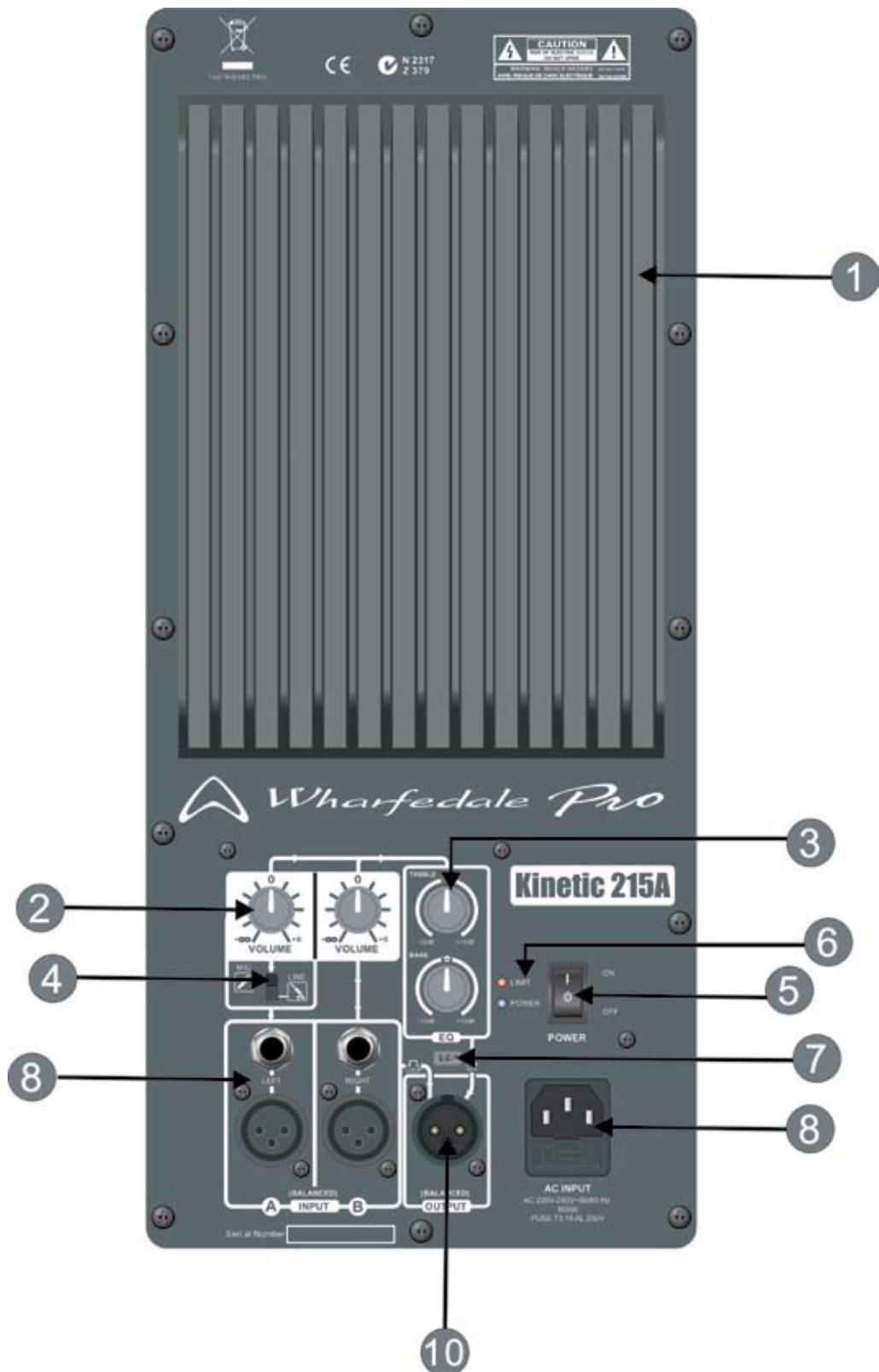
The Loop/Mix Switch

The LOOP/MIX switch allows you to control the signal content going to the XLR OUTPUT jack. In the "LOOP" mode, this switch routes the signal of INPUT B to the line level XLR OUTPUT jack, bypassing the EQ section and volume control. When in the MIX mode, this switch routes the combined (or "mixed") signals of both INPUT A and INPUT B to the line level XLR OUTPUT jack. This signal can then be sent to additional powered speakers or powered subwoofers.

Kinetic 12A/15A-REAR PANEL LAYOUT



Kinetic 215A-REAR PANEL LAYOUT

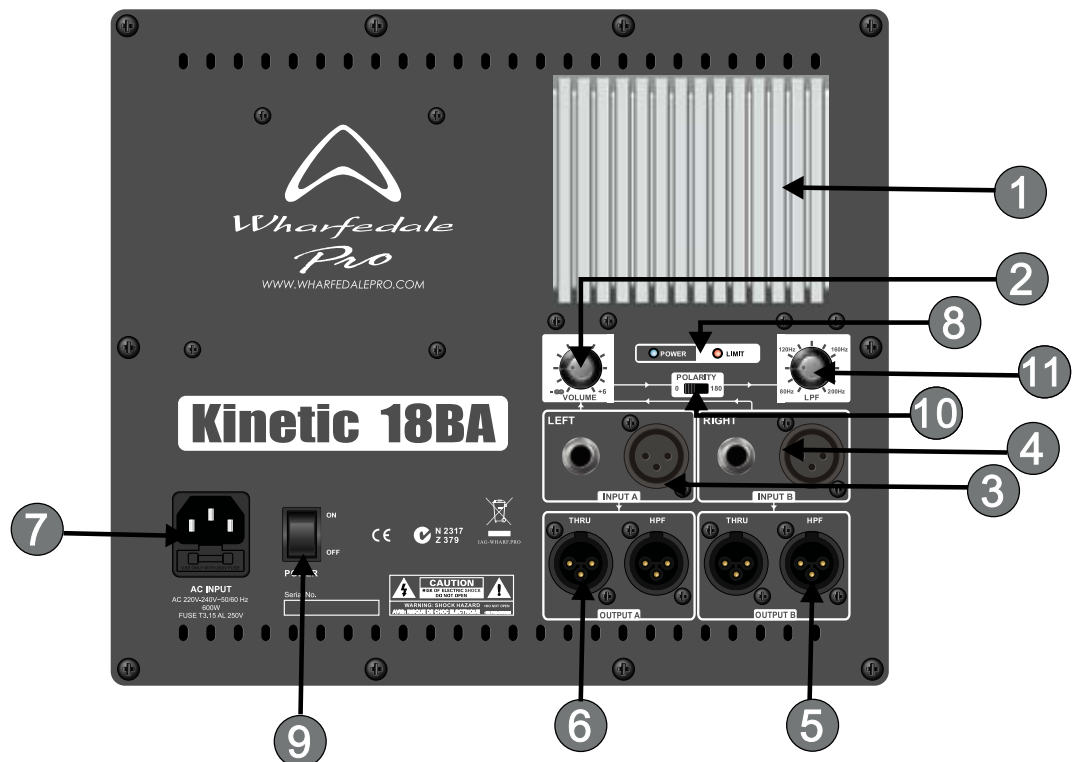


Kinetic 12A/15A/215A REAR PANEL FEATURES

1. **Heat Sink:** The heat sink allows for dissipation of heat built up from the amplifier via air cooling at the rear of the enclosure. (Kinetic 215A only).
2. **VOLUME for INPUT A and INPUT B:** These knobs control the level of each input channel
3. **HI and LOW EQ (equalization) controls:** These knobs control the equalization of the overall output signal providing +/- 12dB of gain for each band.
4. **GAIN selection switch:** This switch selects the proper gain structure for INPUT A. If a microphone is connected to INPUT A, use mic mode (up). If the signal source is anything other than a microphone (playback device, keyboard or mixer output, for instance) use the line mode (down) .
- 5& 6. **POWER ON/OFF switch, POWER 'ON' indicator LED and LIMIT indicator LED:** The switch turns the power on and off. The bracketed LED to the left of the POWER switch illuminates when the power switch is in the 'ON' position. The LIMIT LED illuminates when the signal limiter is limiting the level of the signal to prevent distortion and overload.
7. **Output source "LOOP / MIX" switch:** In the "LOOP" mode, this switch routes the signal of INPUT B to the line level XLR OUTPUT jack, bypassing the EQ section and volume control. When in the MIX mode, this switch routes the combined (or "mixed") signals of both INPUT A and INPUT B to the line level XLR OUTPUT jack.
8. **TRS Jack and male XLR balanced for INPUT A and INPUT B:** These convenient jacks allow XLR or "1/4" balanced input connections to INPUT A and INPUT B.
9. **POWER cord receptacle:** This is a receptacle for a standard IEC, three prong, grounded AC electrical connection cord. Be sure that you are plugging into the correct source voltage that matches what is indicated just below the power cord jack.
10. **Female XLR balanced line level OUTPUT:** This jack provides a balanced line level output for connection to additional Kinetic 18BA, powered subwoofers or amplifiers.

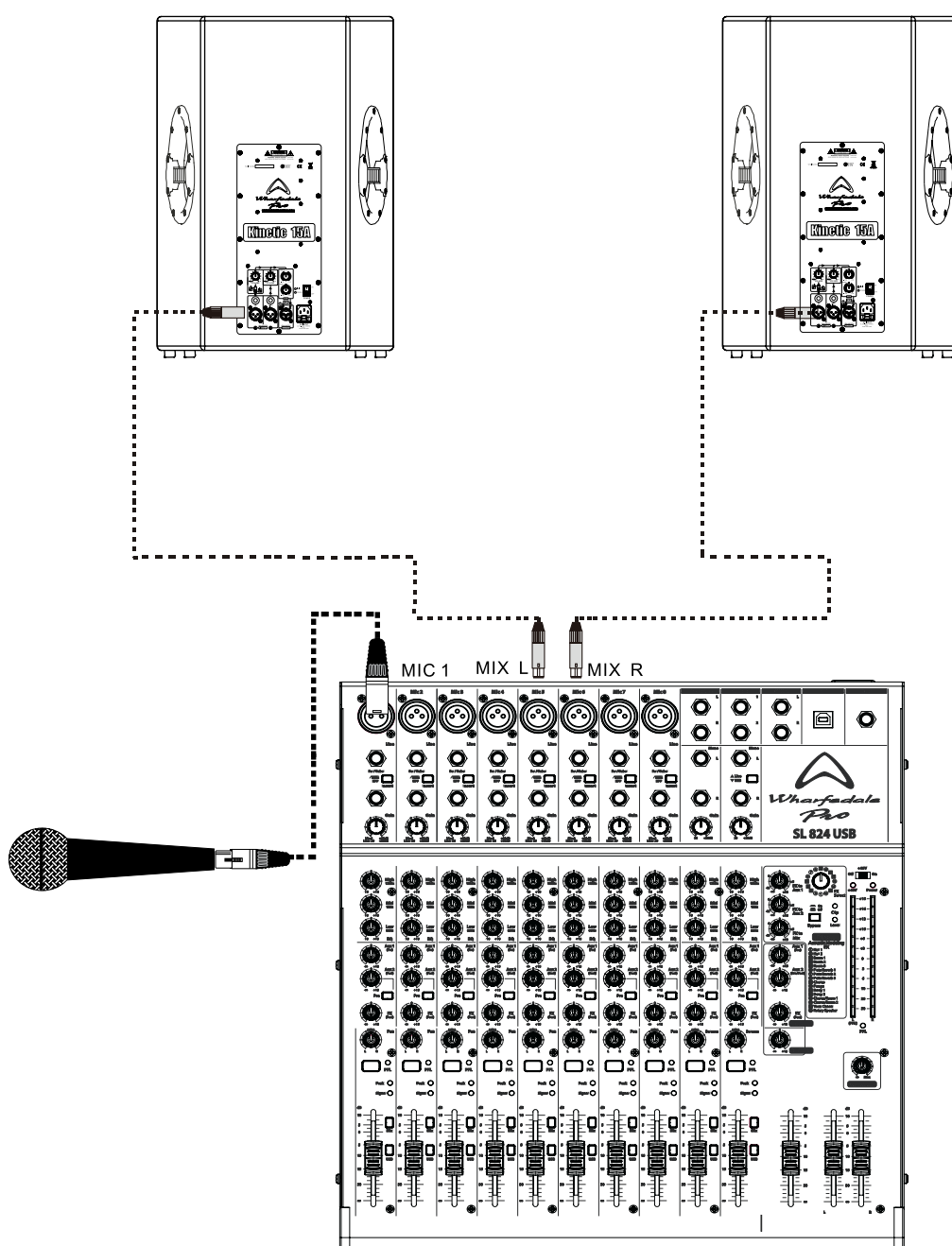
Kinetic 18BA REAR PANEL FEATURES

1. HEAT SINK	Cooling fins for amplifier. Do not obstruct.
2. VOLUME CONTROL	Adjusts the volume.
3. INPUT A	TRS Jack and male XLR balanced for INPUT A
4. INPUT B	TRS Jack and male XLR balanced for INPUT B
5. OUTPUT B	Balanced male XLR connector provides output HIGH PASS signal. Selects the signal type that is routed to the OUTPUT jacks, "THRU" sends the unprocessed signal to the outputs. "HIGH PASS" filters the signal at 100Hz to the outputs.
6. OUTPUT A	Balanced male XLR connector provides output HIGH PASS signal. Selects the signal type that is routed to the OUTPUT jacks, "THRU" sends the unprocessed signal to the outputs. "HIGH PASS" filters the signal at 100Hz to the outputs.
7. POWER SOCKET	This is the connection for the IEC AC power connector.
8. LIMIT LED	LED indicator illuminates when the signal limiting function is activated.
POWER LED	LED indicator illuminates when the unit is powered up.
9. POWER SWITCH	Turns the power on and off to the subwoofer amplifier module.
10. PHASE SWITCH	Selects the polarity of the signal being sent to the subwoofer. 0° selects the signal polarity as it appears at the input. The 180° selection inverts the polarity of the signal.
11. CROSSOVER FREQUENCY CONTROL	Adjustable 80Hz to 200Hz.



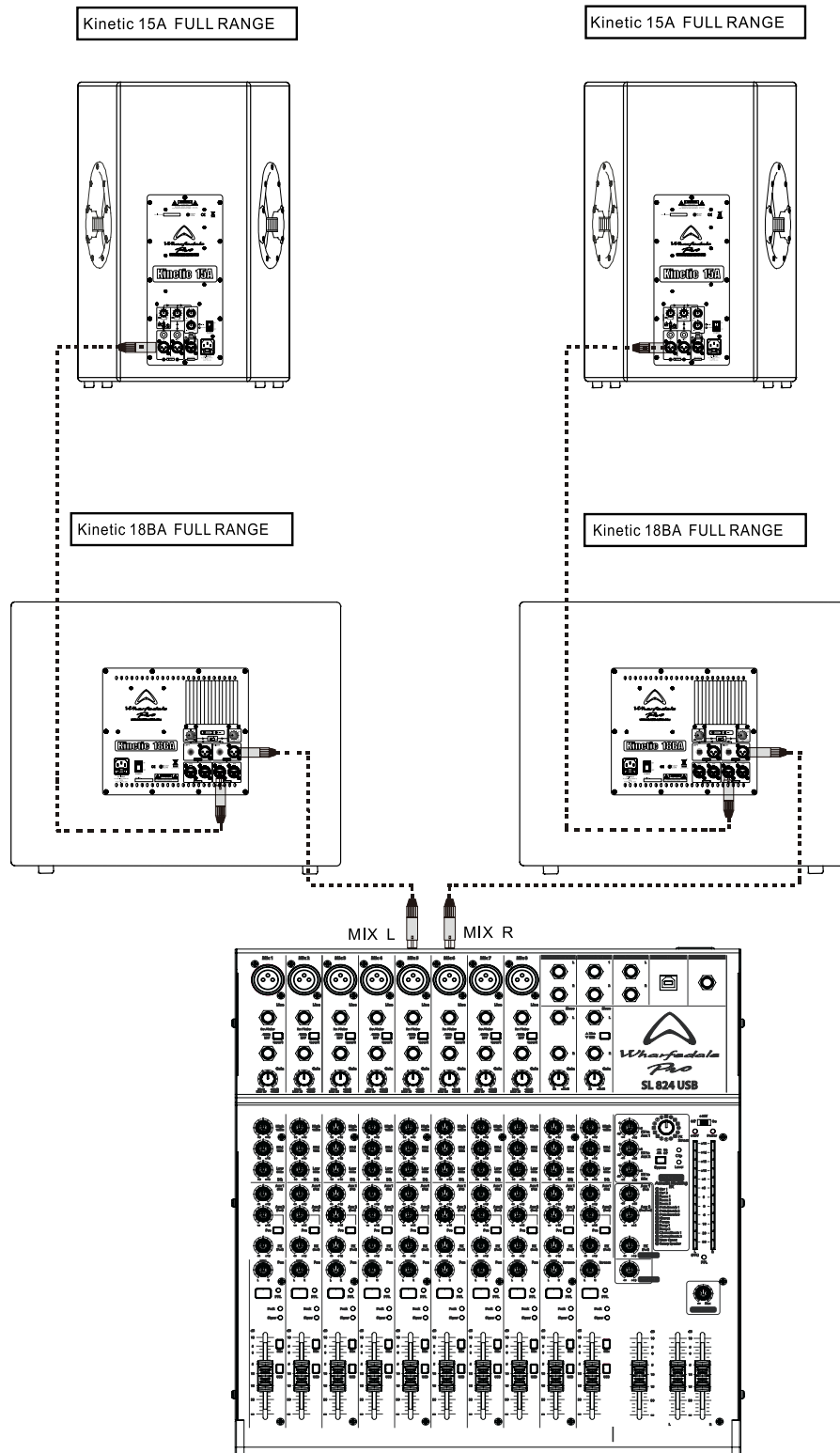
Kinetic 12A/15A/215A BASIC SYSTEM

The Quick Start section of this guide addresses a simple 2-speaker system with microphones only. This section will explain more advanced uses for you Kinetic Active System.



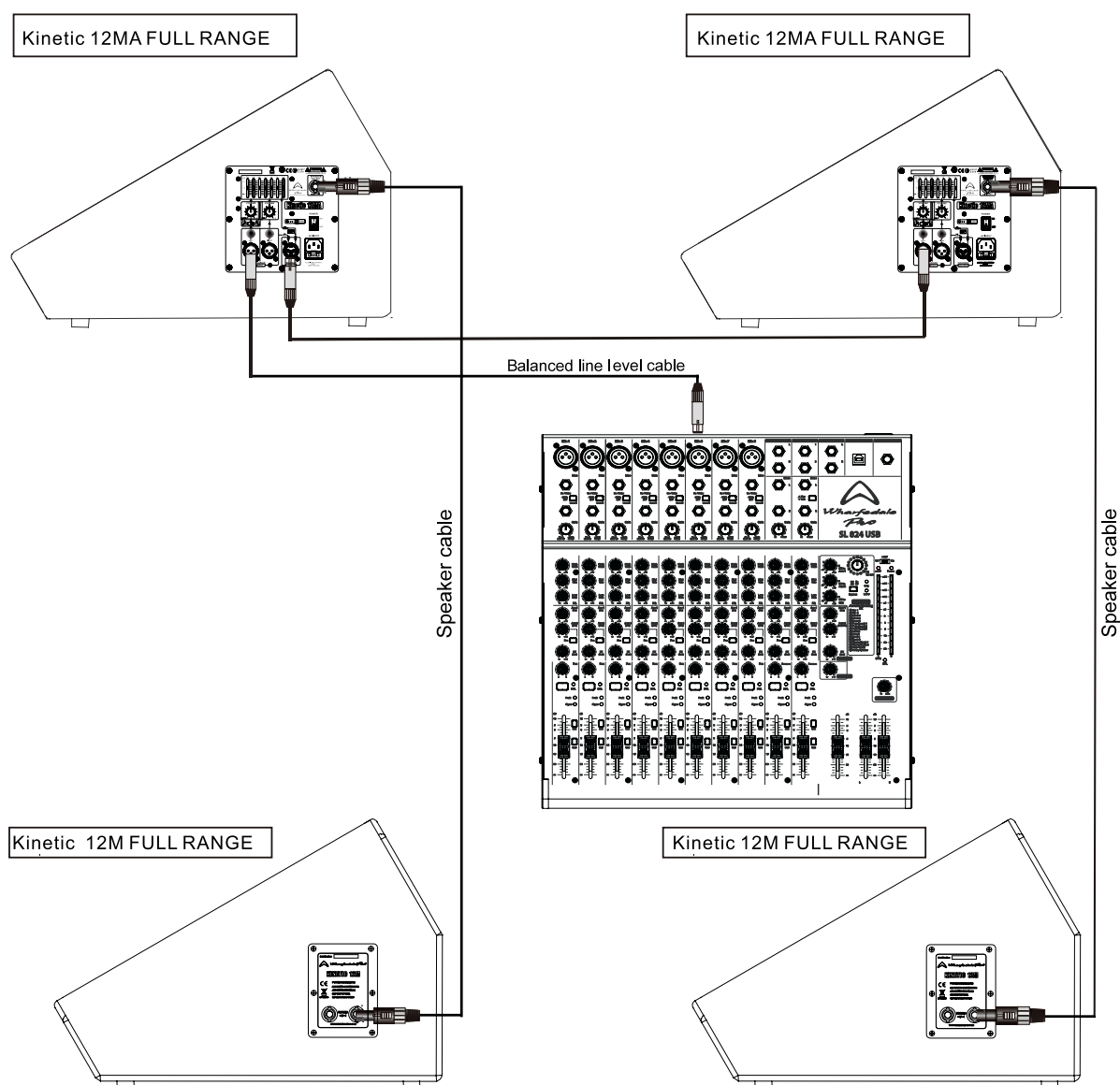
STEREO SYSTEM WITH Kinetic MID/HIGH SYSTEM WITH Kinetic 18BA

This is a system in which a pair of Kinetic 18BA are used with a pair of Kinetic12A(15A) speakers.



Kinetic 12MA WITH CONNECTIONS

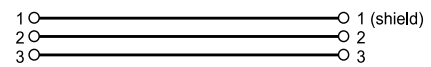
The speaker Out is a post EQ, powered output designed for speakers with a minimum impedance of 8 ohms speaker. This output should be connected only to non-powered monitor speaker. The Kinetic 12M is perfect extension monitor to use in this application.



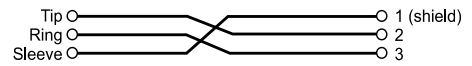
REFERENCE

During its life a mixer will be connected to many different devices. These devices use a variety of connectors. The following illustrations and accompanying table will help you get the most from your Mix. Carrying a selection of these cables and adapters will let you be prepared for almost any audio challenge you might face.

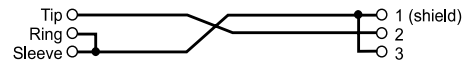
XLR/F to XLR/M Microphone Cable



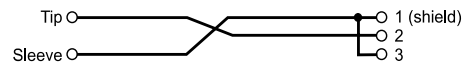
TRS (Balanced) 1/4" Phone to XLR/M Cable



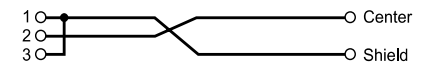
TRS (Unbalanced) 1/4" Phone to XLR/M Cable



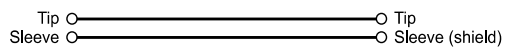
TS (Unbalanced) 1/4" Phone to XLR/M Cable



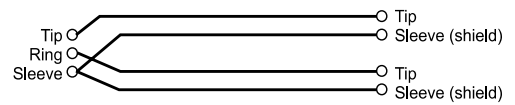
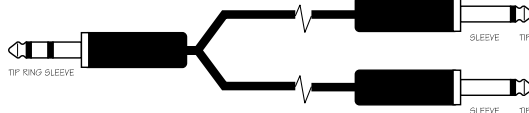
XLR/M to RCA (phono) Cable



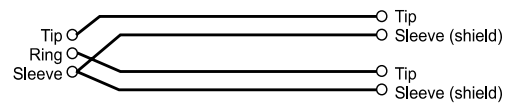
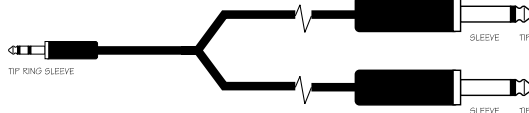
TS (Unbalanced) 1/4" Phone to RCA (phono) Cable



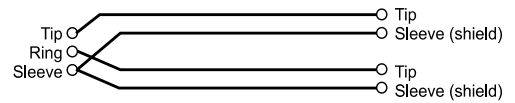
TRS 1/4" Phone to dual TS 1/4" Phone



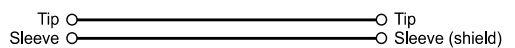
TRS 1/8" Mini-Phone to dual TS 1/4" Phone



TRS 1/8" Mini-Phone to RCA (phono) Adapter



1/4" Phone to RCA (phono) Adapter



Connectors and Adapters

XLR/F to XLR/M Microphone cable	<p>The standard cable for interconnection of microphone and line level signals in professional audio systems.</p> <p>Microphone to mixer</p> <p>Microphone to Kinetic 12A/15A/215A/12MA INPUT A</p> <p>Mixer to Kinetic 12A/15A/215A/12MA INPUT A</p> <p>“Daisy chaining” Kinetic 12A/15A/215A/12MA speaker systems</p>
TRS(Balanced)1/4” Phone to XLR/M	<p>Connects sources with 1/4” balanced outputs(some mixes, amps, and signal processors)to amps, processors and powered speakers with balanced XLR/F inputs.</p>
TRS(Unbalanced)1/4” Phone to XLR/M	<p>For connection of instruments with unbalanced outputs to a balanced XLR input.</p> <p>Sources(signal processors, electronic instruments) with 1/4” unbalanced outputs to amps, processors and powered speakers with balanced XLR/F inputs.</p>
TS(Unbalanced)1/4” Phone to XLR/M	<p>This cable is electrically identical to “TRS(Unbalanced) 1/4” Phone to XLR/M” above and may be used interchangeably..</p>
XLR/M to RCA(phono)cable	<p>Connects consumer audio products and some DJ mixer outputs to professional audio equipment inputs.</p>
1/4” Phone to RCA(phono)cable	<p>Connects outputs of consumer audio equipment to unbalanced line inputs of Kinetic 12A/15A/12MA/215A and many mixers.</p> <p>Connects unbalanced line outputs of many mixers to the inputs of consumer audio recorders.</p>
TRS 1/4” Phone to dual 1/4” Phone	<p>Splits a stereo output into separate left/right signals.</p> <p>Connects stereo electric guitar to two unbalanced audio inputs.</p> <p>Connects a headphone output to two unbalanced audio inputs.</p> <p>Connects signal processors to the “INS” of the Mixer.</p>
1/8” Mini-Phone to dual 1/4” Phone	<p>Connects the output of portable CD players, portable tape players and computer audio outputs to the inputs of Kinetic 12A/15A/12MA/ 215A speaker and Mixer stereo channels.</p>
TRS 1/8” Mini-Phone to RCA(phono)Adapter	<p>Connects the output of portable CD players, portable tape players and computer audio outputs to the inputs of consumer audio equipment.</p>
1/4” Phone to RCA(phono) Adapter	<p>Adapts standard RCA cables used on most consumer electronics to the inputs of Kinetic 12A/15A/12MA/215A speakers and Mixer stereo channels.</p>

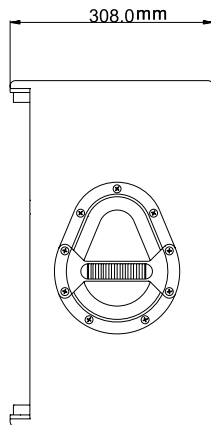
SPECIFICATIONS

Model Name	Kinetic 12A	Kinetic 12MA	Kinetic 15A	Kinetic 215A	Kinetic 18BA
System Type	Active 12" 2-way Bi-Amplified system	Active 12" Amplified monitor system	Active 15" 2-way Bi-Amplified system	Active 2X15" 2-way Bi-Amplified system	Active 18" SUBWOOFER Amplified system
Frequency Response (+/-3dB)	60-20kHz	60-20kHz	50-20kHz	45-20kHz	45-200Hz
Low Frequency Transducer					
Size (mm / inches)	305mm / 12"	305mm / 12"	381mm / 15"	381mm / 15"	470mm / 18"
Coil Size (mm / inches)	50.8mm / 2.0"	50.8mm / 2.0"	50.8mm / 2.0"	50.8mm / 2.0"	64.26mm / 2.5"
Impedance	4 Ω	8 Ω	4 Ω	4 Ω	8 Ω
High Frequency Transducer					
Type	Compression Driver	Compression Driver	Compression Driver	Compression Driver	
Coil Size (mm / inches)	25.4mm / 1"	25.4mm / 1"	25.4mm / 1"	25.4mm / 1"	
Exit Size (mm / inches)	30.5mm / 1.2"	30.5mm / 1.2"	30.5mm / 1.2"	30.5mm / 1.2"	
Diaphragm Material	Phenolic	Phenolic	Phenolic	Phenolic	
Impedance	8 Ω	8 Ω	8 Ω	8 Ω	
High Frequency Coverage (H x V)	90° x 60°	90° x 60°	90° x 60°	90° x 60°	
Amplifiers					
Low-Frequency Power Amplifier RMS (Class D)	220W	400W 4ohms, 200W 8ohms (Full range)	220W	400W	300W
Low-Frequency Power Amplifier Peak (Class D)	350W	700W 4ohms, 400W 8ohms (full range)	350W	700W	600W
High-Frequency Power Amplifier RMS (Class D)	70W		70W	70W (class AB)	
High-Frequency Power Amplifier Peak (Class D)	140W		140W	140W (class AB)	
Electronic Crossover:					
Crossover Frequency	HI PASS 2.7KHz LOW PASS 2.7KHz	passive crossover point 2.8KHz	HI PASS 2.7KHz LOW PASS 2.7KHz	HI PASS 2.7KHz LOW PASS 2.7KHz	Low Pass 200Hz
Controls	+/-12dB maximum	7 Bands EQ (60Hz,	+/-12dB maximum	+/-12dB maximum	
Equalization:	Treble 12KHz shelving, Bass 100Hz shelving	120Hz, 480Hz, 1KHz, 4KHz, 8KHz, 16KHz) +/-12dB	Treble 12KHz shelving, Bass 100Hz shelving	Treble 12KHz shelving, Bass 100Hz shelving	Adjustable 80Hz to 200Hz
Amplifier Protection					
Power On Protection	Power switch on / off mute	Power switch on / off mute	Power switch on / off mute	Power switch on / off mute	Power switch on / off mute
Thermal Protection	Amplifier shutdown, auto reset	Amplifier shutdown, auto reset	Amplifier shutdown, auto reset	Amplifier shutdown, auto reset	Amplifier shutdown, auto reset
Low Line Voltage Shut Down	85% Nominal line voltage	85% Nominal line voltage	85% Nominal line voltage	85% Nominal line voltage	85% Nominal line voltage
Driver Protection	YES	YES	YES	YES	YES
DC Protection	YES	YES	YES	YES	YES
Short Protection	YES	YES	YES	YES	YES
Clip Limiter:					
Limiter Indicator	RED LED	RED LED	RED LED	RED LED	RED LED
Power Indicator	GREEN LED	GREEN LED	GREEN LED	GREEN LED	GREEN LED
Inputs					
Input A – type	Balanced	Balanced	Balanced	Balanced	Balanced
Input Sensitivity	0dBu for Line in, -40dBu for MIC in	0dBu for Line in, -40dBu for MIC in	0dBu for Line in, -40dBu for MIC in	0dBu for Line in, -40dBu for MIC in	0dBu for Line in,
Maximum Input Level	20dBu	20dBu	20dBu	20dBu	20dBu
Input Connector	TRS JACK AND MALE XLR	TRS JACK AND MALE XLR	TRS JACK AND MALE XLR	TRS JACK AND MALE XLR	TRS JACK AND MALE XLR
Input Impedance	22K Ω BALANCE AND 11K Ω UNBALANCE	22K Ω BALANCE AND 11K Ω UNBALANCE	22K Ω BALANCE AND 11K Ω UNBALANCE	22K Ω BALANCE AND 11K Ω UNBALANCE	22K Ω BALANCE AND 11K Ω UNBALANCE

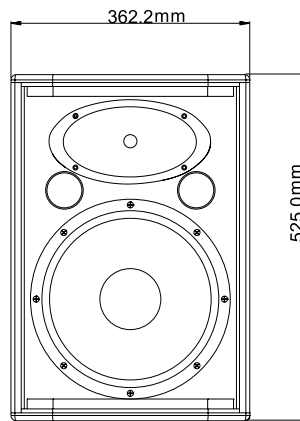
SPECIFICATIONS

Model Name	Kinetic 12A	Kinetic 12MA	Kinetic 15A	Kinetic 215A	Kinetic 18BA
Input B – type	Balanced	Balanced	Balanced	Balanced	Balanced
Input Sensitivity	0dBu	0dBu	0dBu	0dBu	0dBu
Maximum Input Level	20dBu	20dBu	20dBu	20dBu	20dBu
Input Connectors	TRS JACK AND MALE XLR	TRS JACK AND MALE XLR	TRS JACK AND MALE XLR	TRS JACK AND MALE XLR	TRS JACK AND MALE XLR
Line Output	Balanced	Balanced	Balanced	Balanced	Balanced
Line Output Connector	FEMALE XLR	FEMALE XLR	FEMALE XLR	FEMALE XLR	FEMALE XLR
Impedance Balanced:	100R	100R	100R	100R	100R
Loop Gain	0dB	0dB	0dB	0dB	0dB
AC Power details					
Power Supply	SMPS	SMPS	SMPS	SMPS	SMPS
AC Power Options	AC100V-120V~ /220V-240V~, 50/60Hz	AC100V-120V~ /220V-240V~, 50/60Hz	AC100V-120V~ /220V-240V~, 50/60Hz	AC100V-120V~ /220V-240V~, 50/60Hz	AC100V-120V~ /220V-240V~, 50/60Hz
Power On Indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Enclosure					
Enclosure Material	Particle	Particle	Particle	Particle	Particle
Colour	BLACK CARPET	BLACK CARPET	BLACK CARPET	BLACK CARPET	BLACK CARPET
Weight					
Net Weight (kg / lbs)	13.26kg / 29.2lbs	13.68kg / 30.1lbs	18.7kg / 41.14lbs	29.42kg / 64.7lbs	31.6kg / 69.52lbs
Gross Weight (kg / lbs)	15.56kg / 34.2lbs	16.08kg / 35.4lbs	21.18kg / 46.6lbs	33.2kg/73.04lbs	34.42kg / 75.7lbs
Dimensions (Unpacked)					
H (mm / inch)	525mm/20.7"	380(SITU)mm /14.96"	618mm/24.3"	1004mm/39.53"	512mm/20.16"
W FRONT/REAR(mm / inch)	362.2/210.1mm /14.3"/8.27"	366/14.4"	437.4/273.5mm /17.2"/10.77"	437.4/273.5mm /17.22"/10.78"	640mm/25.19"
D (mm / inch)	308mm/12.13"	525mm/20.7"	330mm/12.99"	330mm/12.99"	437mm/17.2"
Dimensions (Packed)					
H (mm / inch)	586mm/23.07"	413mm/16.26"	680mm/26.77"	1172mm/46.14"	579mm/22.79"
W FRONT/REAR(mm / inch)	426/242mm/ 16.8"/9.53"	568mm/22.36"	502/304mm/ 19.76"/11.97"	538/324mm /21.18"/12.76"	686mm/27.0"
D (mm / inch)	348mm/13.7"	386mm/15.2"	370mm/14.57"	400mm/15.75"	483mm/19.0"
CBM	0.068	0.09	0.10	0.20	0.192

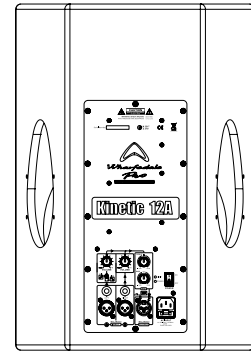
DIMENSIONAL DRAWINGS



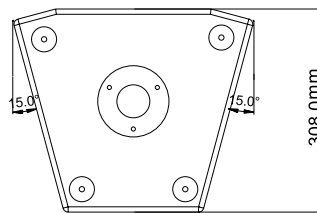
VIEW SIDE



VIEW FRONT

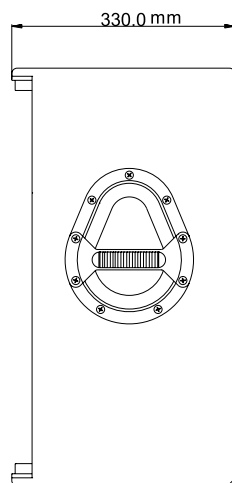


VIEW BACK

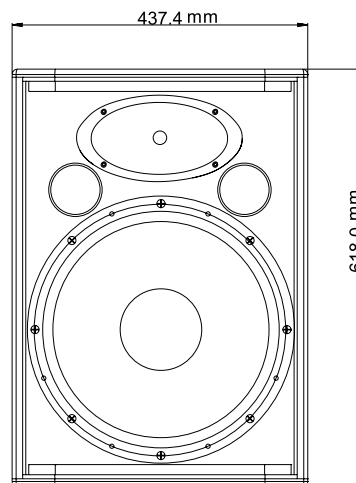


VIEW BOTTOM

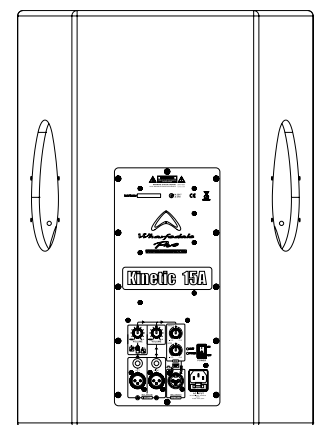
Kinetic 12A



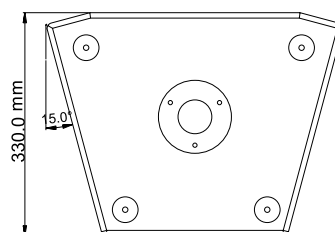
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VIEW FRONT



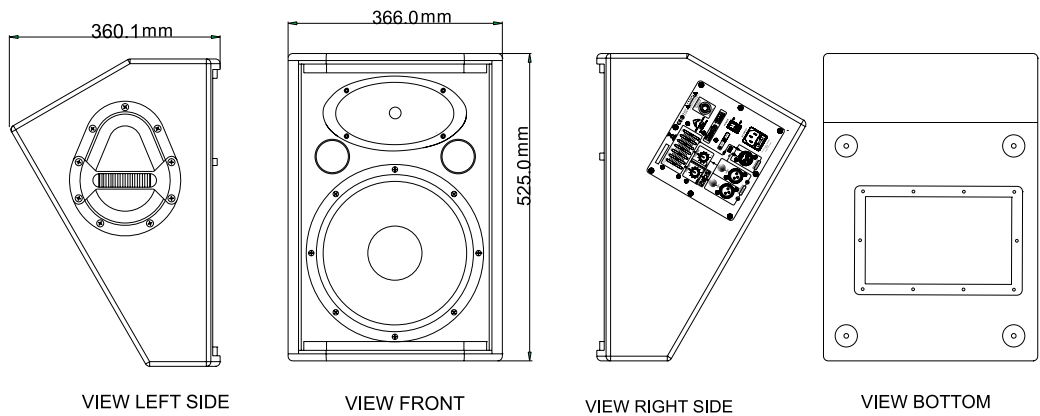
VIEW BACK



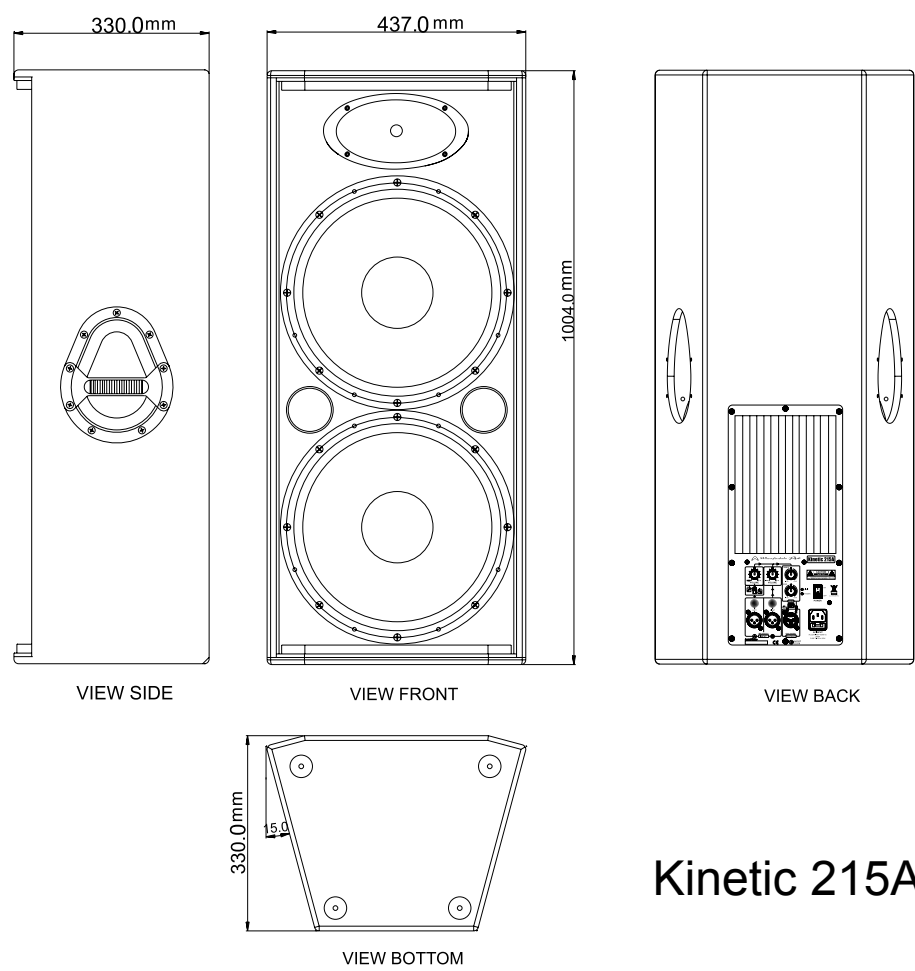
VIEW BOTTOM

Kinetic 15A

DIMENSIONAL DRAWINGS

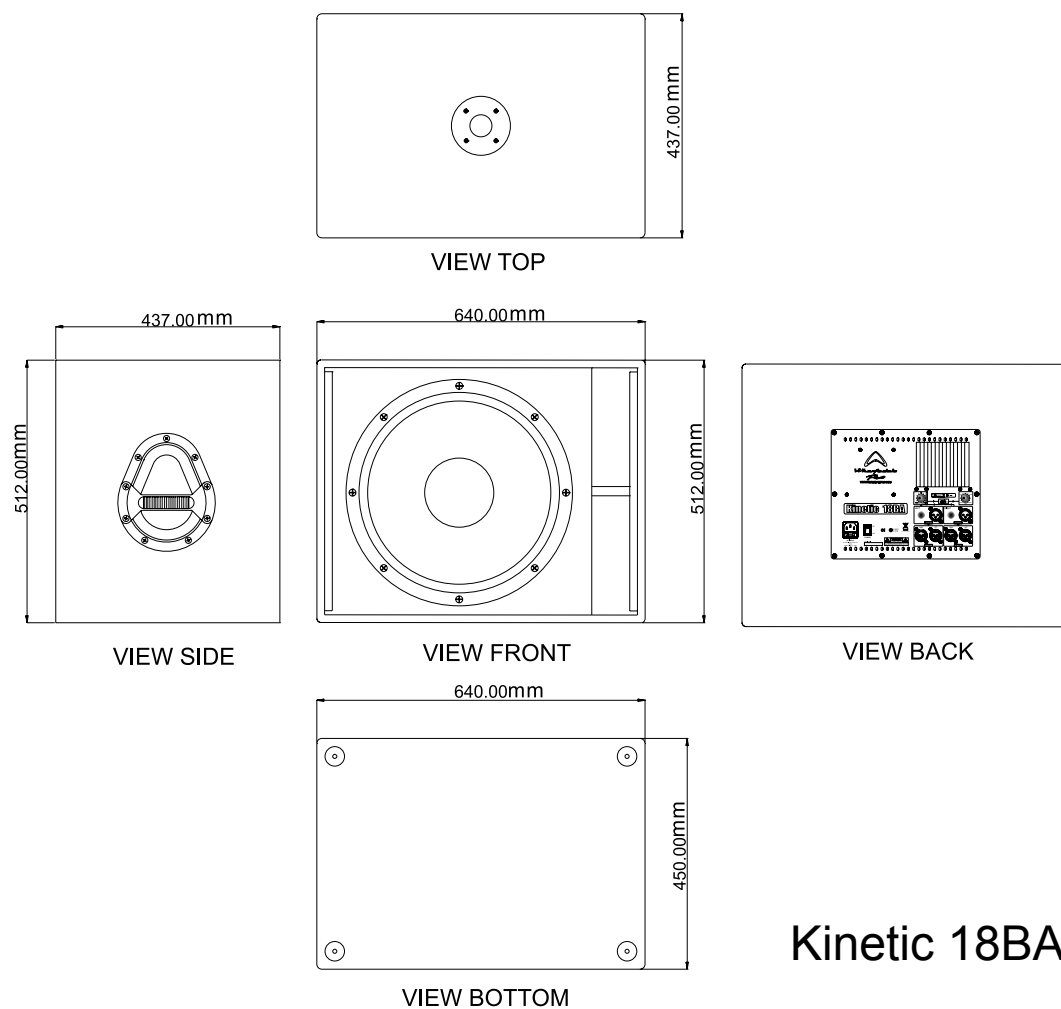


Kinetic 12MA



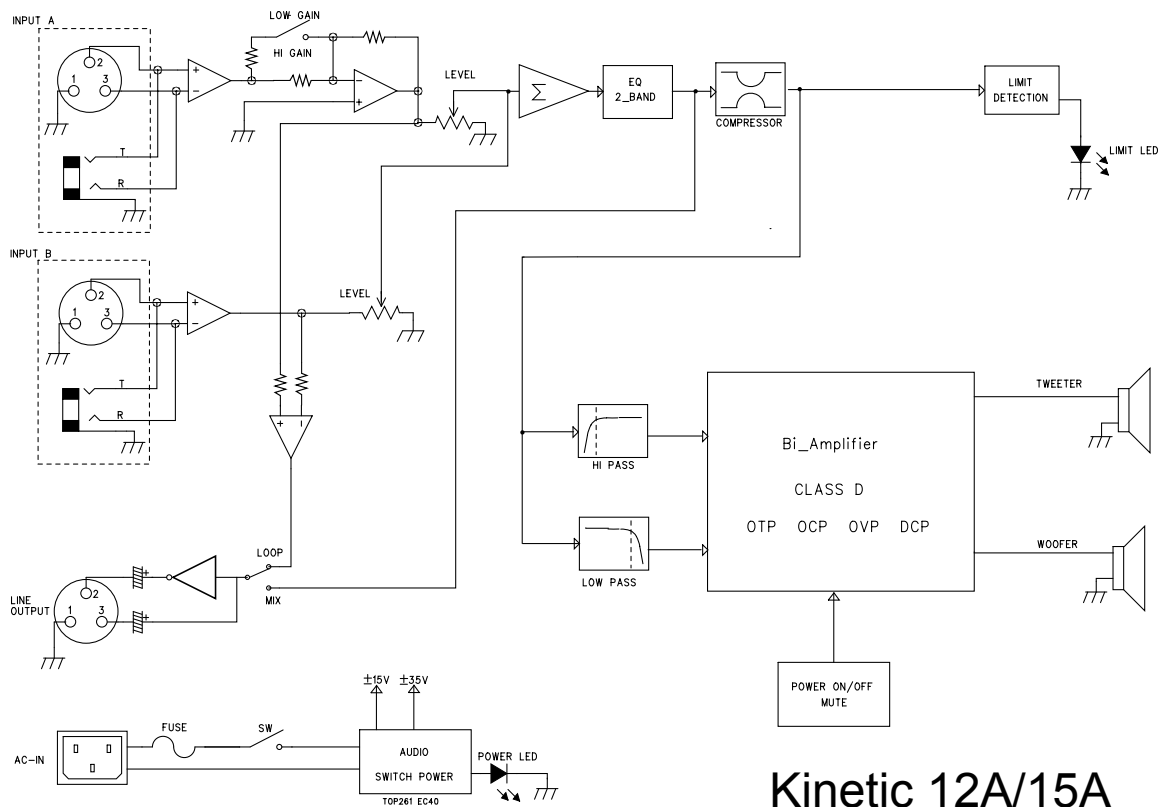
Kinetic 215A

DIMENSIONAL DRAWINGS

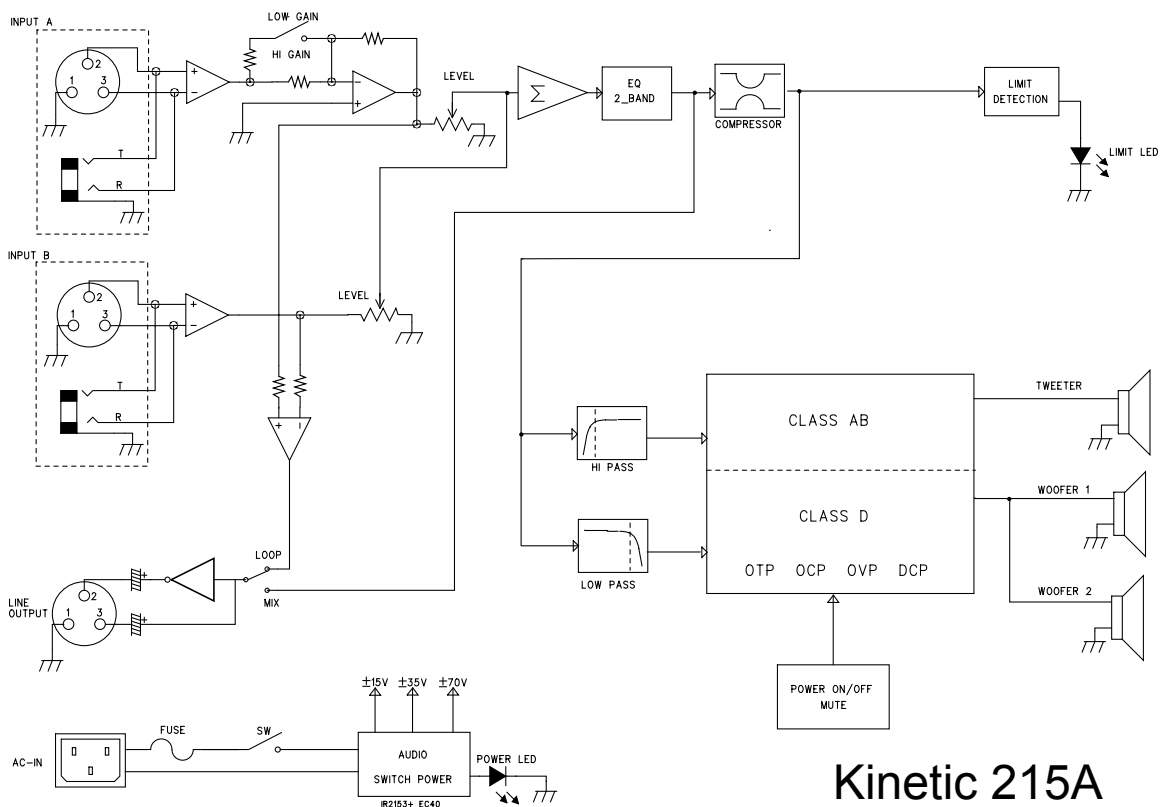


Kinetic 18BA

BLOCK DIAGRAMS

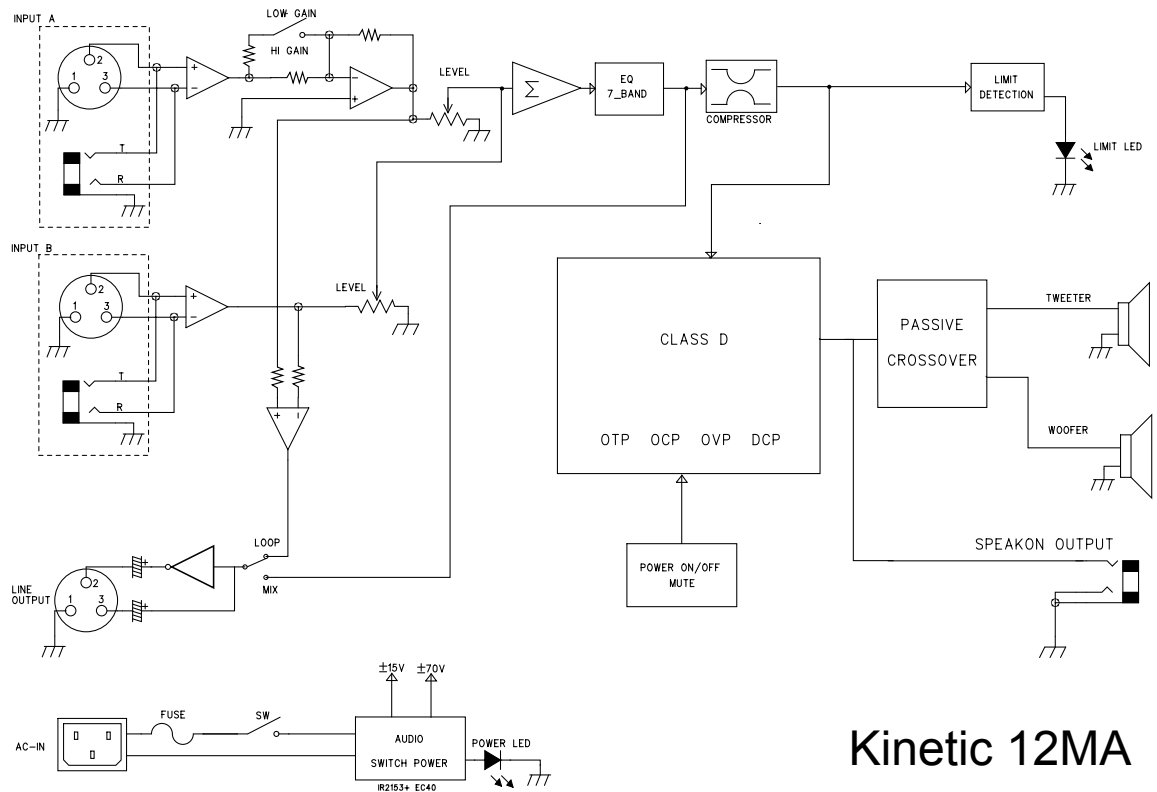


Kinetic 12A/15A

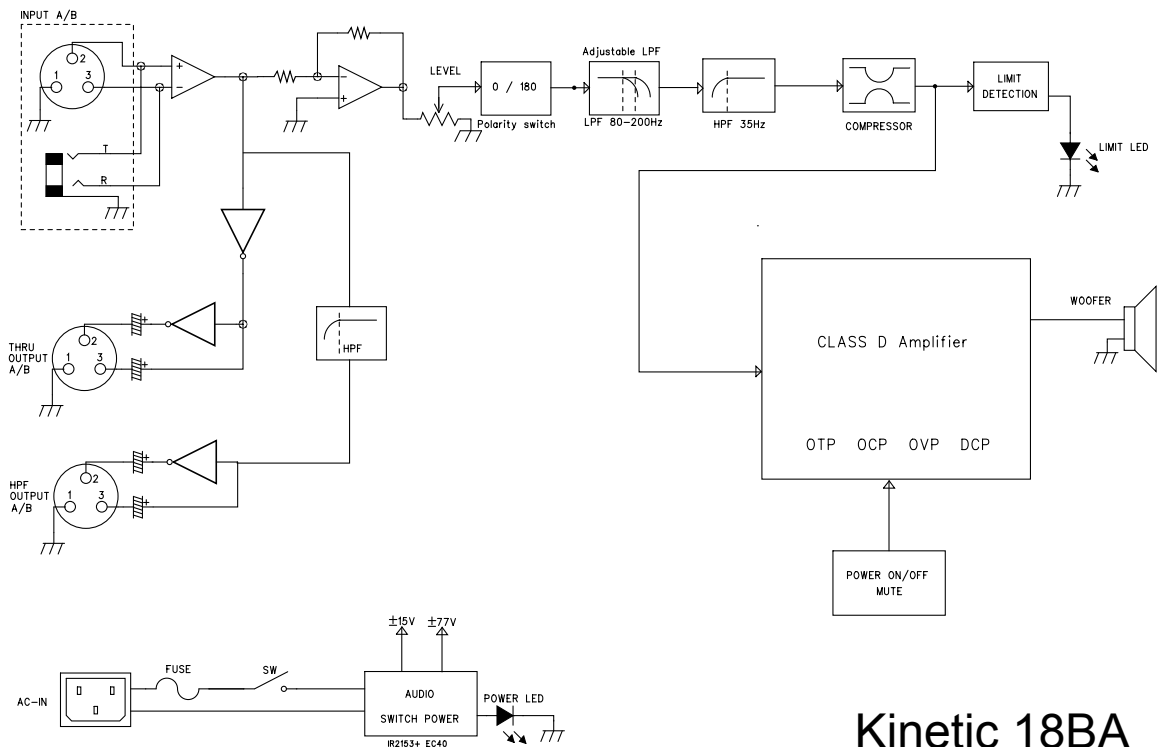


Kinetic 215A

BLOCK DIAGRAMS



Kinetic 12MA



Kinetic 18BA

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Wharfedale Pro products are warranted of manufacturing or material defects for a period of one year from the original date of purchase. In the event of malfunction, contact your authorized Wharfedale Pro dealer or distributor for information.

* Be aware that warranty details may differ from country to country. Contact your dealers or distributor for information. These terms do not infringe your statutory rights.

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